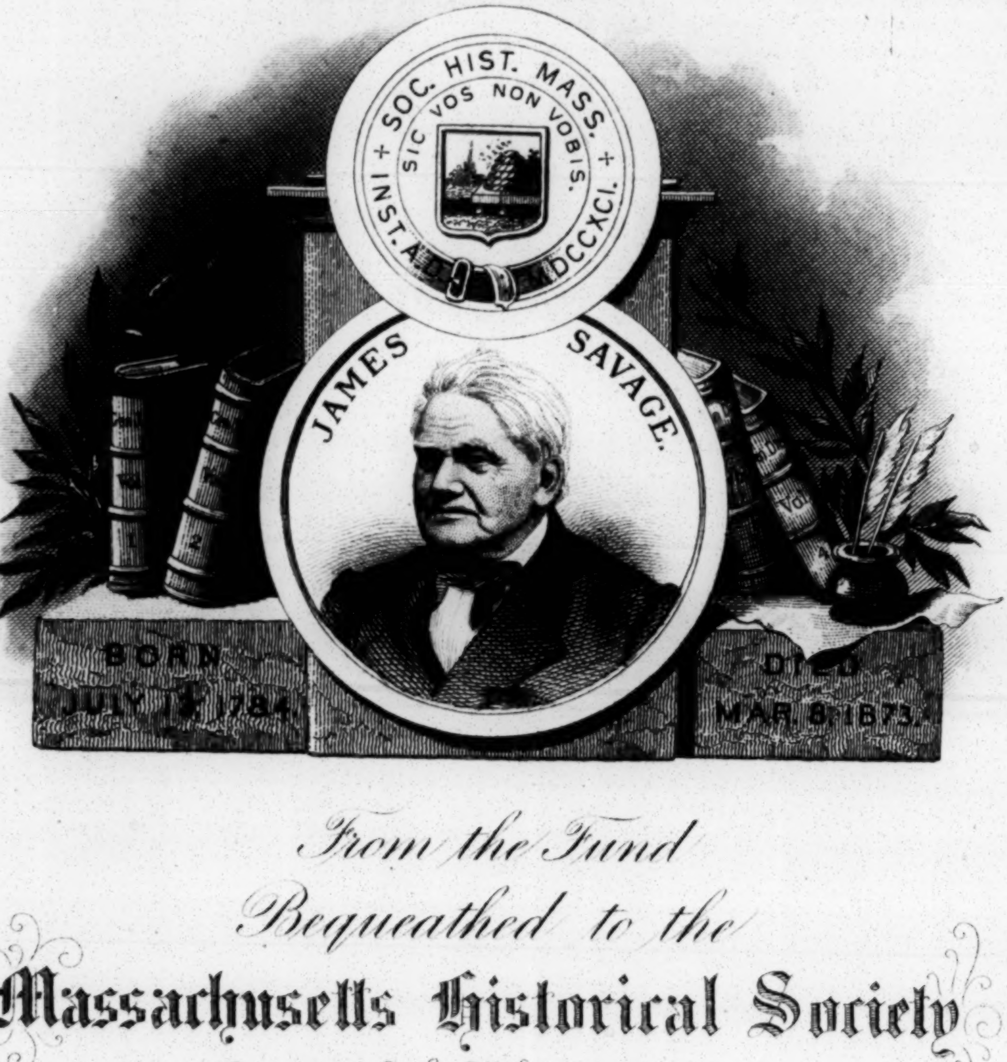
E187 (Almanacs)


SOC. HIST. MASS.
SIC VOS NON VOBIS.
INST. A.D. MDCCXCI.
JAMES SAVAGE.
BORN
JULY 13. 1784.
DIED
MAR. 8. 1873.

From the Fund
Bequeathed to the
Massachusetts Historical Society
BY
James Savage.

Received April, 1893

GOODSPEED. BOSTON.

E187

BOUND BY ZAEHNSDORF. LONDON. ENGLAND

MDCLXXXI.

AN

ALMANACK

OF

Cœleſtial Motions for the Year of the
Chriſtian Epocha,
1681.

Being in our Account ſecond after *Leap-year*:
And from the Creation,
5630.

The Vulgar Notes.

Golden Numb.	10	Epact	20.
Cycle of the Sun.	10	Rom. Indict.	4.
Dominic. Let.	B.	Num. Direct.	13.

Calculated for the Meridian of Boſton *in* New-England, *where the* Artick Pole *is elevated*
42 Degrees & 30 Minutes.

By *John Foſter*, Aſtrophil.

Eph. 5. 16 *Redeem the time, becauſe the dayes are evil.*

BOSTON: Printed by *J. F.* for *Samuel Phillips*
in the weſt end of the *Exchange*. 1681.

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Samuel Sewall His Book

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ECLIPSES in 1681.

IN the Revolution of this Year will happen five Eclipſes of the great Luminaryes, three whereof may be ſeen in *New-England*, if the weather permit.

The firſt viſible is of the Moon . *Auguſt* 18.
Beginning 56 *min*. paſt 8 night.
Continuing 3 *h*. 24.*min*.
Ending 20 *min*. paſt 12. night.
Digits Eclipſed 11 *fere*.
The ſecond is of the Sun, *Jan*. 28.
Beginning 2 *min*. paſt 10 beforenoon.
Continuing 2 *h*. 6.*min*.
Ending 8 *min*. paſt 12 at Noon.
Digits eclipſed 2. 17.
The third viſible is of the Moon *February* 11.
Beginning 29 *min*. paſt 4 afternoon.
Beginning of total darkneſs 28.*m*. paſt 5.
End of total darkneſs 8 *min*. paſt 7.
End of the Eclipſe 7 *min*. paſt 8. night.
Digits eclipſed 20. 15.

The other two Eclipſes are of the Sun on the 9*th*. of *March* and 1*ſt*. of *September*, neither of them viſible to us in *N-E*. and therefore needleſs here to be minded.

The

Directions for the Uſe of the following

EPHEMERIS.

IN the Pages next following you have after the Aſpects of the Sun and Moon) each Moneth preſenting it ſelf in ſeven Columns :-

In the firſt Column you have the Day of the Moneth.

The ſecond contains the day of the Week anſwerable to the day of the Moneth.

In the third you may find ſome of the principal Aſpects of the Planets their places; Courts, Artilleryes, with ſome memorable Occurrences that have lately hapned in *New-England*.

The fourth Column ſhews the Suns place in degrees and minutes.

The fifth declares the degree of the Ecliptick which the Moon poſſeſſeth.

The ſixth Column holds the time of the Suns Riſing and ſetting in three Rows of figures, the firſt ſignifying the hour of the Suns riſing the third ſhews the hour of its ſetting, the middle Row is the number of minutes that the Sun riſes after the hour foregoing, and the minutes that it ſets before the hour following. *e.g. March* 21. the Sun riſeth 43 *min.* after five, & ſets 43 *min.* before ſeven.

The ſeventh Column gives the time of the night when the Pointers (two ſtars by ſome called the *Guards of the great Bear*, and ſo termed in our laſt years Almanack) come to be directly over or under the Pole.

March hath 31 Dayes.

Laſt quar. 2 day 8 min. paſt 4 morning.
New moon 9 day 6 min. paſt 8 night,
Firſt quar. 16 day 10 min. paſt 2 afternoon.
Full moon 23 day 47 min. paſt 8 night.
Laſt quar. 31 day 38 min. paſt 10 night.

Cold heat

Gr.	Gr.	M	W	Plan.aſpects &c.	☉ pl.		☽ pl.		☉ r.& ſ.			P.N	
1		1	3	C. *Aſſiſ*. Boſton, &	21	♓	*Sagit*	14	6	12	6	11	14
	40	2	4	♄ 16 gr. ♋ (C. *Plim*	22	54		26	6	11	6	11	11
	47	3	5	County C. *Harford*.	23	54	*Capr.*	8	6	10	6	11	7
	33	4	6	(☌☉☿	24	54		20	6	8	6	11	03
	40	5	7	♃ 9 ♊	25	53	*Aqu*.	2	6	7	6	10	59
	17	6	1	□♀☽ △♂☿	26	54		15	6	5	6	10	56
10	–	7	2		27	53		28	6	4	6	10	52
	37	8	3	Court *Fairfield*.	28	52	*Piſces*	11	6	2	6	10	48
	50	9	4	♂ 9 gr. ♍	29	52		25	6	1	6	10	45
	52	10	5		00	♈	*Aries*	9	6	00	6	10	41
	50	11	6	*Venus* 16 ♉	1	50		23	5	59	7	10	37
	44	12	7	☿ 11 ♈	2	50	*Taur.*	8	5	57	7	10	33
	7	13	1	☌♀☽	3	49		22	5	56	7	10	30
	7	14	2	☌♃☽	4	48	*Gemi*	6	5	55	7	10	26
	15	15	3	Lun. Perig.	5	47		20	5	53	7	10	23
	50	16	4		6	47	*Canc.*	5	5	52	7	10	20
	10	17	5	☌♄☽	7	46		19	5	50	7	10	16
	7	18	6	1676. *In this moneth*	8	45	*Leo.*	2	5	48	7	10	12
0	0	19	7	Groton, North-	9	44		16	5	46	7	10	9
	9	20	1	hampton(☌♂☽)	10	43		29	5	44	7	10	5
	12	21	2	warwick, Malbo-	11	42	*Virg.*	13	5	43	7	10	1
	20	22	3	rough *and* Reho-	12	41		26	5	41	7	9	58
	14	23	4	both *aſſaulted by*	13	40	*Libra*	9	5	40	7	9	54
	40	24	5	*Indians*.	14	39		22	5	39	7	9	51
	30	25	6		15	37	*Scor.*	4	5	38	7	9	48
	20	26	7	□♄☉	16	36		16	5	37	7	9	44
27	[illegible]	27	1		17	35		29	5	36	7	9	40
	20	28	2	☍ Jup. ☽	18	34	*Sagit*	10	5	34	7	9	37
	30	29	3	C. *Ipſw*. & *North-*	19	32		22	5	33	7	9	33
17	–	30	4	(*hampton*.	20	31	*Capr.*	4	5	32	7	9	29
	20	31	5		21	30		16	5	30	7	9	25

April hath 30 dayes.

New moon 8 day 26 min paſt 6 morn.
Firſt quar. 14 day 47 paſt 10 night.
Full moon 22 day 52 min. paſt 11 noon.
Laſt quar. 30 day 57 min. paſt 2 afternoon.

M	W	*Plan. Aſpects* &c.	☉ pl.		☽ pl.		☉ r. & ſ.			P.N.	
1	6	*Saturn* 16 gr. ♋	22	♈	*Capr.*	28	5	28	7	9	21
2	7	*Jupiter* 13 ♊	23	27	*Aqu.*	10	5	27	7	9	17
3	1	*Mars* 5 ♍ & *ſtat-*	24	26		23	5	26	7	9	13
4	2	☍ ♂ ☽	25	24	*Piſces*	06	5	24	7	9	09
5	3	Court Cambridge.	26	23		19	5	23	7	9	06
6	4		27	21	*Aries*	03	5	22	7	9	02
7	5	☌♃♀	28	19		17	5	20	7	8	58
8	6	*Venus* 19 *gr.* ♊	29	18	*Taur*	02	5	18	7	8	55
9	7	*Mercury* 12 ♉ ☌☿	0	♉		16	5	17	7	8	51
10	1	☌♃♀	1	14	*Gem.*	01	5	16	7	8	47
11	2		2	13		16	5	15	7	8	43
12	3	C. *Salisbury*	3	11	*Canc.*	01	5	14	7	8	39
13	4	*Moon* Perige	4	9		15	5	13	7	8	34
14	5	(☌♄	5	7	*Leo*	00	5	11	7	8	31
15	6	△♂☉	6	6		13	5	10	7	8	28
16	7		7	4		27	5	09	7	8	24
17	1	☌♂☽	8	2	*Virgo*	09	5	07	7	8	21
18	2		9	0		23	5	06	7	8	17
19	3		9	58	*Libra*	05	5	04	7	8	14
20	4	□♂✶♃	10	56		18	5	03	7	8	10
21	5	1676. 18. *Sudbury aſ-*	11	54	*Scor.*	00	5	02	7	8	06
22	6	*ſaulted.*	12	52		13	5	01	7	8	02
23	7		13	50		25	5	00	7	7	58
24	1	*Venus* 0 gr. ♋	14	48	*Sagit.*	07	4	59	8	7	54
25	2	Moon Apog	15	45		19	4	57	8	7	51
26	3	C. Court *Boſton.*	16	43	*Capr.*	00	4	56	8	7	47
27	4	✶♀☿ & of ♄☉	17	41		12	4	55	8	7	43
28	5		18	39		24	4	54	8	7	40
29	6		19	37	*Aqu.*	06	4	53	8	7	36
30	7	△♃ Lun.	20	34		19	4	52	8	7	32

May hath 31 Dayes.

New moon 7 day 34 m in. paſt 2 afternoon.
Firſt quar. 14 day 10 min. paſt 5 morn.
Full moon 22 day 21 min. paſt 3 morn.
Laſt quar. 30 day 4 min. paſt 4 morning.

M	W	Plan.aſpects &c.	☉ pl.		☽ pl.		☉ r.& ſ.			P.N	
1	1		21	♉	*Piſces*	1	4	51	8	7	28
2	2	☍ ♂ ☽ Lun ☊	22	30		14	4	50	8	7	24
3	3	♄ 19 gr ♋ ⚹☉☽	23	27		27	4	49	8	7	20
4	4	♃ 19 ♊	24	25	*Aries*	11	4	48	8	7	16
5	5	♂ 10 ♍ ☌ ♂	25	23		25	4	47	8	7	12
6	6	☿ 8 ♋	26	20	*Taur.*	10	4	46	8	7	08
7	7	*Mercury 2 ♉ and*	27	18		25	4	45	8	7	04
8	1	*viſible for ſeveral*	28	15	*Gemi*	10	4	44	8	7	00
9	2	*mornings about this*	29	13		25	4	43	8	6	56
10	3	*time.*	00	♊	*Canc.*	10	4	42	8	6	52
11	4	C. *Election* Boſton.	1	8		25	4	41	8	6	48
12	5	C. Elect. *Hartford.*	2	5	*Leo.*	9	4	40	8	6	44
13	6		3	2		23	4	39	8	6	40
14	7	☌ ♂ ☽	4	00	*Vir .*	7	4	39	8	6	36
15	1	1676. *Bridgwater,*	4	57		20	4	38	8	6	32
16	2	*Plimouth &*	5	55	*Libra*	3	4	37	8	6	28
17	3	*Hatfield in this*	6	52		15	4	36	8	6	24
18	4	*month aſſaulted.*	7	49		27	4	35	8	6	20
19	5	△ ♂ ☿ ☍ ☿ ☽	8	47	*Scor.*	10	4	34	8	6	16
20	6		9	44		22	4	33	8	6	12
21	7	*Mer.* 17 ♉	10	41	*Sagit*	4	4	33	8	6	08
22	1		11	39		16	4	32	8	6	04
23	2	⚹ ♄ ☿	12	36		27	4	31	8	6	00
24	3	☽ Apoge.	13	33	*Capr.*	9	4	31	8	5	56
25	4	☍ ♄ ☽ & ♀ ☽	14	30		21	4	30	8	5	52
26	5		15	27	*Aqu.*	3	4	30	8	5	48
27	6		16	25		15	4	29	8	5	44
28	7	*Venus ſtationary.*	17	22		27	4	29	8	5	40
29	1		18	19	*Piſces*	10	4	28	8	5	36
30	2	□ ♂ ☉	19	16		23	4	28	8	5	31
31	3	C. Aſſiſt. Hartford.	20	13	*Aries*	5	4	28	8	5	27

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June hath 30 dayes.

New moon 5 day 30 min paſt 8 night.
Firſt quar. 12 day 17 min. paſt 3 afternoon
Full moon 20 day 8 min. paſt 6 afternoon.
Laſt quar. 28 day 47 min. paſt 1 afternoon.

M	W	*Plan. Aſpects &c.*	☉ pl.		☽ pl.		☉ r. & ſ.			P.N	
1	4	*Saturn* 22 gr. ♋	21	♊	*Aries*	20	4	28	8	5	23
2	5	*Jupiter* 26 ♊	22	8	*Taur.*	4	4	28	8	5	20
3	6	*Mars* 21 ♍	23	5		18	4	27	8	5	15
4	7	♀ 17 ♊ ☌☿☽	24	2	*Gem.*	3	4	27	8	5	10
5	1		24	59		18	4	27	8	5	06
6	2	Artil. Elect. *Boſton.*	25	56	*Canc.*	3	4	27	8	5	02
7	3	C. Elect. *Plimouth.* &	26	53		18	4	26	8	4	58
8	4	C. *N-hav.* (C. *NLond*	27	50	*Leo*	3	4	26	8	4	54
9	5	☌☉♃	28	47		18	4	26	8	4	50
10	6		29	44	*Virgo*	2	4	26	8	4	46
11	7	☽☊	0	♋		16	4	26	8	4	42
12	1	□♂☿	1	39		29	4	26	8	4	38
13	2	☌♃♀	2	36	*Libra*	12	4	26	8	4	35
14	3	Court *Charlſtown.*	3	33		24	4	26	8	4	30
15	4		4	30	*Scor.*	7	4	26	8	4	25
16	5	1676. *Hadly* aſſault.	5	27		19	4	26	8	4	20
17	6	Terra Aphelion.	6	24	*Sagit.*	1	4	27	8	4	17
18	7	☌☉♀☿	7	21		13	4	27	8	4	13
19	1	Lun Apoge.	8	18		24	4	27	8	4	09
20	2	☍♀☽ & of ☿☽	9	15	*Capr.*	7	4	27	8	4	04
21	3	1675. Indian War	10	12		18	4	28	8	4	00
22	4	began in *Plimouth*	11	9	*Aqu.*	00	4	28	8	3	56
23	5	Colony.	12	6		12	4	28	8	3	52
24	6		13	3		24	4	29	8	3	48
25	7		14	0	*Piſces*	7	4	29	8	3	44
26	1	☽☋	14	57		20	4	29	8	3	40
27	2	☍♂☽ ☌♄☿	15	54	*Aries*	2	4	30	8	3	36
28	3	Court *Salem.*	16	52		15	4	30	8	3	32
29	4		17	49		29	4	31	8	3	28
30	5		18	46	*Taur.*	13	4	32	8	3	23

July hath 31 dayes.

New moon 5 day 4 min. paſt 5 morning.
Firſt quar. 12 day 26 min. paſt 1 morn.
Full moon 20 day 43 min. paſt 1 morn.
Laſt quar. 27 day 48 min. paſt 9 night.

M.w.		Plan.Aſpect,&c.	☉pl.		☽ pl.		☉ r.&ſ.			P.N.	
1	6		19	♋	*Taur.*	27	4	32	8	3	19
2	7		20	40	*Gemi*	12	4	32	8	3	15
3	1	☌♃☽ ☌♀☽	21	37		28	4	33	8	3	11
4	2	Artil.Elect.*Salem*	22	34	*Canc.*	12	4	34	8	3	7
5	3	Court *Plimouth*. &	23	31		27	4	35	8	3	3
6	4	(☌♄☽	24	28	*Leo.*	12	4	36	8	2	59
7	5		25	26		27	4	36	8	2	55
8	6	☌♄☉	26	23	*Virg.*	11	4	37	8	2	51
9	7	Jup.4 gr.♋	27	20		25	4	38	8	2	47
10	1		28	17	*Libra*	8	4	39	8	2	43
11	2	1676. *Taunton aſ-*	29	14		21	4	40	8	2	39
12	3	Mars 12 ♎ (*ſaulted*	0	♌	*Scorp*	3	4	41	8	2	35
13	4	Venus 29 ♋	1	9		15	4	42	8	2	31
14	5	Mercury 25 ♌	2	6		27	4	43	8	2	27
15	6	☊ 14 ♍	3	3	*Sagit*	9	4	44	8	2	23
16	7		4	1		21	4	45	8	2	19
17	1	☍♃☽ ☍♀☽	4	58	*Capr.*	3	4	46	8	2	15
18	2	Lun apoge	5	55		15	4	47	8	2	11
19	3	☍♄☽	6	53		27	4	48	8	2	7
20	4		7	50	*Aqu.*	9	4	46	8	2	4
21	5		8	47		21	4	50	8	1	59
22	6	☍☿☽ ☽☊	9	45	*Piſc.*	4	4	51	8	1	55
23	7		10	42		16	4	52	8	1	51
24	1	□♄ □♀☽	11	40		29	4	53	8	1	47
25	2		12	37	*Aries*	12	4	54	8	1	44
26	3	County C. *Boſton.*	13	34		26	4	55	8	1	40
27	4		14	32	*Taur.*	9	4	56	8	1	39
28	5	*Venus* 4 gr. ♋	15	29		23	4	57	8	1	32
29	6	*Merc.* 13 ♍ viſ.	16	27	*Gemi*	7	4	58	8	1	28
30	7		17	24		21	4	59	8	1	24
31.	1	☌♃☽ & of ♀☽	18	22	*Canc.*	6	5	01	7	1	21

Auguſt hath 31 dayes.

New moon 3 day 20 min. paſt noon.
Firſt quar. 10 day 26 min. paſt 9 night.
Full moon 18 day 43 min. paſt 9 night.
Laſt quar. 26 day 30 min. paſt 3 morn.

M.w.		Plan Aſpect,&c.	☉ pl.		☽ pl.		☉ r.&ſ.			P.N.	
1	2		19	♌	*Canc.*	21	5	2	7	1	17
2	3	♄og r.♌	20	17	*Leo.*	05	5	3	7	1	13
3	4	♃ 9 ♋	21	15		20	5	5	7	1	09
4	5	Mars 26 ♎	22	12	*Virg.*	4	5	6	7	1	05
5	6	Venus 9 ♋ ☌☿☽	23	10		19	5	7	7	1	02
6	7		24	08	*Libra*	3	5	8	7	12	58
7	1	☌♃♀	25	06		16	5	9	7	12	54
8	2	1679 *Boſton Conflag.*	26	03		28	5	11	7	12	51
9	3	Commencement.	27	01	*Scorp*	11	5	12	7	12	47
10	4		27	59		23	5	14	7	12	44
11	5		28	57	*Sagit*	6	5	15	7	12	40
12	6	1676. *Philip* of	29	55		17	5	17	7	12	36
13	7	*Mount-hope* ſlain.	00	♍		29	5	18	7	12	32
14	1	☍♃ ☍♀ □♄♂	01	51	*Capr.*	11	5	19	7	12	28
15	2		02	48		23	5	20	7	12	25
16	3	Lun apoge	03	46	*Aqu.*	05	5	22	7	12	21
17	4		04	44		17	5	24	7	12	18
18	5		05	43	*Piſc.*	00	5	25	7	12	14
19	6	☍☽☿	06	41		13	5	27	7	12	10
20	7		07	39		26	5	28	7	12	07
21	1	1675. 2. *Quabaog*	08	37	*Aries*	9	5	29	7	12	03
22	2	deſtroyed by the Ind	09	35		23	5	30	7	12	00
23	3	△☉☽ ☍♂☽	10	33	*Taur.*	7	5	31	7	11	56
24	4	*Venus* 25 ♋	11	31		20	5	32	7	11	52
25	5	*Merc.* 9 ♍	12	30	*Gemi*	4	5	34	7	11	49
26	6	⚹☉♃	13	28		17	5	35	7	11	45
27	7		14	26	*Canc.*	01	5	37	7	11	42
28	1	☌♃☽	15	24		16	5	39	7	11	38
29	2	☌♄ ☌♀☽	16	25	*Leo.*	00	5	41	7	11	34
30	3		17	22		15	5	42	7	11	30
31	4	Lun Perige	18	20		29	5	43	7	11	26

September hath 30 dayes.

New moon 1 day 6 min. paſt 10 night.
Firſt quar. 9 day 32 min paſt 3 afternoon.
Full moon 17 day 28 min. paſt 11 noon.
Laſt quar. 24 day 26 min paſt 8 morning.

M.	VV	Planets aſpects,&c.	☉ pl.		☽ pl.		☉ r.&f.			P.N.	
1	5	C. Harford. ☌ ♄ ♀	19	♍	*Virg.*	13	5	44	7	11	22
2	6	(& ☉ ecl.	20	17		28	5	45	7	11	18
3	7	△ ♃ ♂	21	16	*Libra*	11	5	47	7	11	14
4	1	1675. 1. *Deerfield*	22	14		24	5	49	7	11	10
5	2	laid waſte.	23	13	*Scor.*	7	5	51	7	11	06
6	3	C. Aſſiſt. *Boſton.* &	24	12		19	5	53	7	11	03
7	4	(☌ ♂ ☽	25	10	*Sagit*	2	5	55	7	10	59
8	5	△ ♃	26	9		13	5	56	7	10	55
9	6		27	8		26	5	58	7	10	51
10	7	Luna apoge.	28	7	*Capr.*	7	5	59	7	10	48
11	1	☍ ♄ ☽	29	6		19	5	59	7	10	45
12	2	☍ ♀ Lun.	00	♎	*Aqua*	1	6	00	6	10	41
13	3	Saturn 4 gr. ♌	01	3		13	6	02	6	10	37
14	4	Jup. 17 ♋	02	2		25	6	03	6	10	33
15	5	Mars 24 ♏	03	1	*Piſcet*	8	6	05	6	10	30
16	6	Venus 20 ♌	04	0		22	6	07	6	10	27
17	7	Mercury 18 ♍	04	59	*Aries*	5	6	09	6	10	24
18	1	☊ 11 ♍	05	58		18	6	10	6	10	20
19	2		06	58	*Taur.*	2	6	12	6	10	17
20	3	Court Newlondon	07	57		16	6	13	6	10	14
21	4	☍ ♂	08	56	*Gemi.*	00	6	15	6	10	10
22	5	△ ☉ ☽	09	55		14	6	16	6	10	07
23	6		10	55		27	6	17	6	10	04
24	7	☌ Jov. Lun.	11	54	*Canc.*	13	6	18	6	10	00
25	1	Moon *Perige*	12	54		27	6	19	6	9	57
26	2		13	53	*Leo.*	11	6	20	6	9	54
27	3	C. Ipſw. & Springf.	14	53		25	6	21	6	9	50
28	4	Lun ☊ □ ♂ ♀	15	52	*Virgo*	8	6	23	6	9	46
29	5		16	52		22	6	25	6	9	42
30	6	☌ ☿ ☽	17	51	*Libra*	6	6	26	6	9	38

October hath 31 dayes.

New moon 1 day 31 min. paſt 10 beforenoon.
Firſt quar. 9 day 43 min. paſt 10 beforenoon.
Full moon 16 day 27 min. paſt 11 night.
Laſt quarter 23 day 23 min. paſt 3 afternoon.
New moon 31 day 6 min. paſt 2 morn.

M.	VV.	Planets aſp. &c.	☉ pl.		☽ pl.		☉ r.&ſ.			P. N	
1	7	☌☿☽ □♃☉	18	♎	*Libra*	19	6	27	6	9	34
2	1	△♄♂	19	50		2	6	29	6	9	30
3	2		20	50	*Scorp*	15	6	30	6	9	27
4	3	Court Cambridge.	21	49		27	6	31	6	9	23
5	4	☌♂☽ ☌☿☉	22	49		10	6	32	6	9	20
6	5		23	49	*Sagit*	22	6	34	6	9	16
7	6		24	49		3	6	35	6	9	12
8	7	Luna apoge.	25	48	*Capr.*	15	6	37	6	9	8
9	1	☌♃☽	26	48		27	6	39	6	9	4
10	2		27	48	*Aqu.*	9	6	40	6	8	1
11	3	C. Aſſiſt. *Hartford.*	28	48		21	6	41	6	8	57
12	4	☽☊	29	48		4	6	42	9	8	53
13	5	☍♀☽ ⚹♃♀	00	♏	*Piſces*	17	6	43	6	8	50
14	6		1	48		29	6	44	6	8	46
15	7	Saturn 6 gr. ♌	2	48	*Aries*	13	6	45	6	8	42
16	1	Jupiter 20 ♋	3	48		27	6	37	6	8	38
17	2	Mars 17 ♐	4	48		13	6	48	6	8	34
18	3	Venus 26 ♍	5	49	*Taur.*	25	6	49	6	8	30
19	4	Mercury 29 ♒	6	49		10	6	50	6	8	26
20	5	☍♂☽	7	49	*Gemi*	25	6	51	6	8	22
21	6		8	50		9	6	53	6	8	18
22	7	☌♃☽ Moon *Perige*	9	50	*Canc.*	23	6	54	6	8	14
23	1	☌♄☽	10	50		8	6	56	6	8	10
24	2		11	51	*Leo.*	21	6	57	6	8	6
25	3	Court *Boſton* & *Pli-*	12	51		5	6	59	6	8	3
26	4	*(mouth.*	13	52	*Virgo*	19	7	00	5	8	00
27	5		14	52		2	7	1	5	7	56
28	6	Venus 8 ♎	15	52	*Libra*	15	7	2	5	7	52
29	7	Mercury 1 ♐	16	53		28	7	3	5	7	48
30	1	□♄☽	17	53	*Scorp*	11	7	5	5	7	44
31	2		18	54		23	7	7	5	7	39

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November hath 30 dayes.

Firſt quar. 8 day 2 min paſt 6 morn.
Full moon 15 day 32 min. paſt noon.
Laſt quar. 22 day 16 min paſt 1 morning.
New moon 29 day 19 min. paſt 8 night.

M.	VV.	Planets aſpects,&c.	☉ pl.		☽ pl.		☉ r.&ſ.			P.N.	
1	3	Court *Fairfield*	19	♏	*Sagit*	6	7	8	5	7	35
2	4		20	55		18	7	9	5	7	31
3	5	☌ ♂ ☽ the ☉ in ☍	21	56	*Capr.*	0	7	10	5	7	27
4	6	to the *Pleiades* is	22	57		12	7	11	5	7	22
5	7	thought to make	23	57		24	7	12	5	7	18
6	1	theſe dayes tem-	24	58	*Aqua*	5	7	13	5	7	14
7	2	peſtuous.	25	59		17	7	14	5	7	10
8	3		26	59		29	7	15	5	7	5
9	4	Court *Newhaven*.	28	00	*Piſces*	11	7	16	5	7	1
10	5	Saturn 7 gr. ♌	29	1		24	7	17	5	6	57
11	6	Jup. 20 ♋	00	♐	*Aries*	7	7	18	5	6	52
12	7	Mars 7 ♑ ☍ ♀ ☽	01	3		20	7	19	5	6	48
13	1	Venus 27 ♎	02	4	*Taur.*	5	7	20	5	6	44
14	2	Mercury 23 ♐	03	5		19	7	20	5	6	40
15	3		04	6	*Gemi.*	3	7	21	5	6	35
16	4		05	7		19	7	22	5	6	31
17	5	☍ ♂ ☽ & of ☿ ☽	06	8	*Canc.*	4	7	23	5	6	27
18	6	☌ ♃ ☽ △ ♄ ☉	07	9		19	7	23	5	6	23
19	7		08	10	*Leo.*	4	7	24	5	6	19
20	1		09	11		18	7	25	5	6	14
21	2	△ ☿ ☽ □ ♄ ♀	10	12	*Virgo*	2	7	25	5	6	10
22	3		11	13		16	7	26	5	6	6
23	4		12	14		26	7	27	5	6	2
24	5	*Venus* 11 ♏	13	15	*Libra*	12	7	27	5	5	58
25	6	☿ 2 ♑ & ſtationary	14	16		28	7	28	5	5	53
26	7		15	17	*Scor.*	8	7	29	5	5	49
27	1	1676. a great Fire	16	18		20	7	29	5	5	45
28	2	in *Boſton*. ☍ ♃ ♂	17	20	*Sagit*	2	7	30	5	5	40
29	3	Court *Salem*.	18	21		14	7	30	5	5	36
30	4		19	22		26	7	31	5	5	31

December hath 31 dayes.

Firſt quar. 7 day 59 min. paſt 11 night.
Full moon 14 day 15 min. paſt 9 night.
Laſt quarter 21 day 31 min. paſt 3 afternoon.
New moon 29 day 49 min. paſt 3 afternoon.

M.	VV.	Planets aſp. &c.	☉ pl.		☽ pl.		☉ r.&ſ.	P.	N
1	5	Lun apoge. △ ♃ ♀	20	♐	*Capr.*	8	7 31 5	5	27
2	6	☍ ♃ ☌ ♂	21	26		20	7 32 5	5	22
3	7	☍ ♄ ☽	22	27	*Aqu.*	2	7 32 5	5	18
4	1		23	28		13	7 33 5	5	14
5	2		24	30		25	7 33 5	5	08
6	3	♄ 6 gr. ♌	25	31	*Piſces*	8	7 33 5	5	03
7	4	Jupiter 18 ♋	26	32		20	7 34 5	4	59
8	5	Mars 27 ♍	27	33	*Aries*	3	7 34 5	4	54
9	6	Venus 29 ♏	28	35		16	7 34 5	4	50
10	7	ſhorteſt day.	29	36		29	7 34 5	4	46
11	1	Merc. 18 ♐	00	♑	*Taur.*	13	7 34 5	4	42
12	2	☊ 6 ♍ ☍ ♀ ☽	1	39		27	7 34 5	4	37
13	3	☍ ☿ ☽	2	40	*Gemi*	12	7 34 5	4	32
14	4	△ ♄ Venus	3	41		27	7 34 5	4	28
15	5	☌ ♃ ☽	4	42	*Canc.*	12	7 34 5	4	23
16	6	☽ perige.	5	43		27	7 34 5	4	19
17	7	☌ ♄ ☽	6	45	*Leo.*	13	7 33 5	4	14
18	1	Mercury ſtat.	7	46		27	7 33 5	4	10
19	2		8	47	*Virgo*	12	7 33 5	4	6
20	3	C. Charlſtown.	9	48		25	7 32 5	4	1
21	4	1675. *Die 19 Cano-*	10	50	*Libra*	9	7 32 5	3	57
22	5	*nicus Fort taken by*	11	51		22	7 31 5	3	52
23	6	*the Engliſh.*	12	52	*Scorp*	5	7 31 5	3	48
24	7	Venus 18 gr. ♐	13	54		18	7 30 5	3	43
25	1	Mercury 21 ♐	14	55		29	7 29 5	3	39
26	2	☍ ☉ ♃	15	56	*Sagit.*	11	7 29 5	3	34
27	3	☌ ♀ ☿ ☽	16	58		23	7 28 5	3	30
28	4	☍ Jov. Lun.	18	0	*Capr.*	5	7 28 5	3	25
29	5		19	0		18	7 27 5	3	21
30	6	Lun Apoge	20	1		20	7 27 5	3	16
31	7	☍ ♂ ☽	21	2	*Aqu.*	11	7 26 5	3	12

January hath 31 dayes.

Firſt quar. 6 day 45 min. paſt 1 afternoon.
Full moon 13 day 35 min. paſt 7 morn.
Laſt quar. 20 day 43 min paſt 6 morning.
New moon 28 day 55 min. paſt 10 beforenoon.

m.w.		Planets aſp &c.	☉ pl.	☽ pl.			☉ r. & ſ.			P.N.	
1	1		22	♑		23	7	25	5	3	07
2	2	*♀☽ Lun ☋.	23	5	*Piſc.*	5	7	25	5	3	03
3	3	♄ 4 gr. ♌ & retr.	24	6		17	7	24	5	2	59
4	4	♃ 14 [illegible] & retr	25	7		29	7	23	5	2	54
5	5	♂ 19 ♒	26	8	*Arie.*	12	7	22	5	2	50
6	6		27	9		26	7	21	5	2	46
7	7		28	10	*Taur*	8	7	21	5	2	42
8	1	♀ & ☿ ☌ ♑	29	11		22	7	20	5	2	38
9	2	△☉☽ *♄	00	♒	*Gem.*	6	7	19	5	2	33
10	3		1	14		21	7	18	5	2	29
11	4	☌♃ ☍♀☽	2	15	*Canc.*	6	7	17	5	2	25
12	5	☍♄☉	3	16		21	7	16	5	2	21
13	6	☍♃♀ & ♃☿	4	17	*Leo.*	5	7	15	5	2	17
14	7		5	18		21	7	14	5	2	13
15	1	☽☊	6	20	*Virg.*	5	7	13	5	2	09
16	2		7	21		20	7	12	5	2	05
17	3	△☉☽ *♄	8	22	*Libra*	4	7	11	5	2	01
18	4	□♃ □♀ □☿	9	23		18	7	10	5	1	57
19	5	*Venus* 22 gr. ♑	10	24	*Scorp*	1	7	9	5	1	53
20	6	*Merc.* 25 ♑	11	25		14	7	8	5	1	49
21	7		12	25		26	7	7	5	1	45
22	1	*☉☽ □♂☽	13	26	*Sagit.*	7	7	6	5	1	41
23	[illegible]		14	27		20	7	5	5	1	36
24	3		15	28	*Capr.*	2	7	4	5	1	31
25	4	☍♃☽ ☍♄☿	16	29		14	7	3	5	1	27
26	5	*The long Mar*[illegible]	17	30		26	7	2	5	1	23
27	6	☍♄ ☌☿☽	18	31	*Aqu.*	8	7	1	5	1	19
28	7	Sun Eclipſed *viſ.*	19	31		20	6	59	6	1	15
29	1	☍♂☽ ☍♄♀	20	32	*Piſces*	1	6	57	6	1	11
30	2		21	33		14	6	56	[illegible]	1	07
31	3	C. Court Boſton.	22	33		26	6	54	6	1	03

February hath 28 dayes.

Firſt quar. 5 day 21 min. paſt 4 morning.
Full moon 11 day 48 min. paſt 6 night.
Laſt quar. 19 day 00 min. paſt 1 morning.
New moon 27 day 11 min. paſt 4 morn.

m.	w.	Planets aſp.&c.	☉ pl.		☽ pl.		☉ r. & ſ.			P.N.	
1	4	Saturn 2 gr. ♌	23	♒	*Arie.*	9	6	52	6	01	00
2	5	♃ [illegible] ♋ △♃♂	24	34		22	6	50	6	12	56
3	6	Mars [illegible] ♓	25	35	*Taur*	05	6	48	6	12	52
4	7	*Venus* 10 ♒	26	36		18	6	48	6	12	48
5	1	Mercury 20 ♍	27	36	*Gem.*	02	6	47	6	12	44
6	2		28	37		[illegible]6	6	46	6	12	40
7	3		29	37	*Canc.*	00	6	44	6	12	36
8	4	☌♃☽ △♂☽	00	♓		15	6	42	6	12	32
9	5	☌♄☽ ☽ perige	1	38		29	6	40	6	12	28
10	6	1675 *Lancaſter burnt*	2	39	*Leo.*	14	6	39	6	12	25
11	7	A total eclipſe of the	3	39		29	6	38	6	12	21
12	1	Moon.	4	39	*Virg.*	14	6	37	6	12	17
13	2		5	40		28	6	36	6	12	13
14	3		6	40	*Libra*	12	6	35	6	12	9
15	4	☌☉☿	7	40		26	6	34	6	12	6
16	5		8	40	*Scorp*	9	6	32	6	12	2
17	6	△♃☿ □♀☽	9	41		23	6	31	6	11	58
18	7	△☉♃	10	41	*Sagit.*	5	6	29	6	11	54
19	1		11	41		17	6	28	6	11	50
20	2		12	41		29	6	27	6	11	47
21	3	1675. *Medfield*	13	41	*Capr.*	10	6	26	6	11	43
22	4	aſſaulted.	14	41		22	6	24	6	11	40
23	5	☽ Apoge.	15	41	*Aqu.*	4	6	22	6	11	36
[illegible]	6		16	41		16	6	20	6	11	32
25	7		17	40		28	6	18	6	11	28
26	1	☌♀☽ & of ♂ ☿	18	40	*Piſces*	10	6	16	6	11	24
27	[illegible]	△♄☿ △♄[illegible]	19	40		23	6	14	6	11	21
28	3	☌♂☽ △♃♀	20	40	*Aries*	6	6	13	6	11	18

OF COMETS,
Their Motion, Diſtance & Magnitude.

IT may perhaps be expected that the terrible *Comet* ſeen this laſt winter 1680. to us in *New-England*, and (no doubt) to the whole world, ſhould occaſion ſomething here to be ſaid concerning the nature and conſtitution of thoſe wonderful bodyes: but if it be a true (as well as a common) Saying, *Non eſt in intellectu quod non fuit prius in ſenſu, Nothing comes to the underſtanding but what hath firſt paſſed the ſenſes*, then it will follow that ſuch things as are far removed from our ſenſes, will alſo be remote from our underſtandings: And though it muſt be confeſſed that the Age wherein we live hath made many rare diſcoveryes of ſuch things in the heavens whereof the Ancients were whollv ignorant, as the Ring of ♄, the Satellites of ♃, mountains and valleys in the moon, & thouſands of Stars which they never ſaw *&c.* ſo much alſo concerning Comets of their motion magnitude and diſtance as may ſerve to ſubvert the old fabrick of their fancies, but yet notwithſtanding theſe diſcoveryes, we are ſtill ignorant what they are, *Quod ſint concedimus, ſed qualia ſint ignoramus*: and whence indeed can we hope that it ſhould be otherwiſe; when perhaps could we approach them, for a perfect and full view of them, (ſeeing they are not within the confines of this earths influence or juriſdiction) we could determine nothing thereby but their magnitude, colour and figure; Such therefore as have eſſayed any phyſical Diſcourſe concerning Comets, wanting a good foundation to build upon have exceedingly varied in their apprehenſions, *Quot homines tot ſententiæ*: Nor would theſe few leaves give me ſcope ſo much as to draw up in any order the many Regiments of opinions which every where appear among Authors concerning Comets, much leſs to give them fair play in their own defence.

We may therefore certainly conclude that as yet no man knows concerning Comets whence they are, what they are, for what they come, or whither they goe.

It will therefore be ſufficient for me here a little to concern my ſelf with ſuch things only as come under a mathematical Demonſtration, as their Motion, Diſtance, and Magnitude.

1. *Of their Motion.* And here I think no man will deny but that Comets have a real as well as an apparent motion. But though their motion be granted, yet whether that motion be equal or unequal, whether it be in a ſtraight line or a circle, whether in an ellipſis or ſome irregular curve is not yet determined.

But here is no room for a Debate; and therefore I ſhall comprize in theſe three following Poſitions what (to me) ſeems moſt probable to ſolve their ſtrange appearances, and reconcile their apparent inequality both in motion and magnitude to a regular line and equal motion.

1. That Comets as well as all other heavenly bodyes are in their motions moſt regular and equal, holding that motion moſt preciſely into which they were once put by the hand of the Creator: for where there is nothing to impede, retard or accelerate a motion, that motion muſt needs continue the ſame.

2. That the motion of a Comet with reſpect to that place in which it nextly and immediately is, is in a ſtraight line, though in reſpect of us (at leaſt while it continues within the Orb of *Saturn*) it deſcribe a line curve & irregular.

3. That whereas there is a general Law of Gyration or Revolution round the Sun given to all within the ſphere of its activity, it muſt of neceſſity come to paſs, that a Comet (or any other extraneous body) coming within this compaſs, though it have a particular motion of its own in which it doth equally perſiſt, yet while the general Syſtem is circumvolved, the Comet with its ſtraight line muſt alſo be tranſlated together with it, in proportion to the motion of that place in which it nextly is.

VVe ſee here upon the earth, that things in their natural tendency either upward or downward, both with reſpect to the air through which, or the earth to or from which they move, doe deſcribe a right line without receiving any diſturbance therein by the annual or diurnal motion of the earth: the like may be ſeen in the *Satellites* of Jupiter, whoſe motion round him is not varied at all by his ſwift courſe through the Vniverſe: For as it is neceſſary in finding their apparent places in the Ecliptick to conſider as well the motion of ♃ and of the earth, as their own proper motion; ſo likewiſe in ſolving the various appearances of a Comet it will be neceſſary to conſider the motion of the Comet, of the earth, and of the the general Syſtem in that part through which the Comet is paſſing.

2. *Their Diſtance.* While Comets were thought to be generated of Fumes, Vapors, ſulphurous Exhalations &c. their diſtance was eſteem'd no greater then the upper Region of the air, and their magnitude not exceeding an hill or mountain: but by late obſervations their Parallaxes have been found very ſmall if at all ſenſible: whence it is apparent that they are far beyond the moon; ſome have thought four times, ſome ten, ſome forty times as far diſtant from the earth as the Moon is.

3. *Of their Magnitude.* Notwithſtanding the great difference in the apparent magnitude of Comets, it is commonly thought that there is no real difference in their magnitude, but in their diſtance only, and ſo ſeem leaſt when moſt remote, and bigger when nearer. Suppoſing therefore that this Comet in its *Perige* or neareſt approach to the earth was but four times as far diſtant as the Moon, then was its diſtance more then eight hundred thouſand Engliſh miles, the length of its blaze or tail as much as its diſtance, and its breadth and thickneſs many thouſands of of miles. But theſe dimentions are thought incredible, & therefore I ſhall refer the Reader for his better ſatiſfaction to what acconut we may receive of this Comet from other parts of the world: In the mean time take our obſervations of it here in *N.E.* as followeth,

Obſervations of a Comet *ſeen this laſt Winter* 1680. *and how it appeared at* Boſton *in N-E. whoſe* Long. 315. *gr. and* Latitude 42 gr. 30 min. N.

November the ~~nineteenth~~ eighteenth 1680, at five a clock in the morning this Comet was at *Boſton* firſt obſerved, it was near 14 Degrees in *Libra*, and 1 *gr.* 30. *m.* ſouthward of the Ecliptick. The weather being clear ſhewed its Tail to a great length, near 30 gr. but ſo faint that it vaniſhed as ſoon as the day-light appeared.

Novemb. 19. It was judged within a Degree of *Spica Virginis*, directing its courſe to the northward of it about 40 *min.*

After this, ſeveral mornings proved cloudy, till it was covered by the Sun beams, and appeared in the Eaſt no more.

We judged it would paſs its ☌ with the ☉ in the begining of *December*, and therefore ſoon after expected to ſee it in the weſt.

Friday, *Decemb.* 10. Proved a clear evening after ſeveral preceding cloudy; the Tail of the Comet appeared near 30 gr. above our Horizon, bending to the northward, and paſſing exactly under the Galaxy or Milky-way.

Decemb. 12. Its Blaze or Tail appeared very red and fiery, and extended to a Star in the breaſt of the Swan.

Decemb. 14. Its Head was firſt diſcerned, but ſoon diſappeared, its ſtream remaining for ſome hours after, paſſing to the northward of *Cor Aquilæ*, over-reached a third part of our Hemiſphere.

Decemb. 16. Its appearance was very terrible, for though the head of it was but ſmall, yet its tail aſcended almoſt to our Zenith, growing continually broader from the

head

head, and was brighteſt on the ſides, eſpecially on the ſouth ſide, the middle of the Tail being conſiderably darker than either of the ſides.

Decemb. 17. 5. *h.* 50. Its diſtance taken from known ſtars, made its place 20 *gr.* 6 *min.* ♑, and its latitude 16 *gr.* 25 *m.* N.

Decemb. 18. The ſouthward edge of its tail juſt touched the northermoſt ſtar in the Dolphin, and proceeding paſſed over a ſtar of the 3 *d.* magnitude in the Swans left wing. After this we had no clear evening till

Saturday, Decemb. 25. when its diſtance taken from known ſtars (at 6 *h.* 12. *m.*) made its place 24 *gr.* 12 *m.* ♒ Lat. 23 31.

Jan. 1. 6 *h.* 30 *m.* It was judged by its Poſition among the fixed ſtars, to be in ♓ 26 *gr.* 15. *min.* & its Lat. 28. 15. The night following at 8 *h* was judged to enter ♈.

Saturday, Jan. 8. This night gave the faireſt opportunity of finding its true place, and Parallax alſo (if it had not been too ſmall for our inſtruments) by its approach to a fixed ſtar of the 3 *d.* Magnitude in the right ſhoulder of *Andromeda*: We therefore attended it in its going down for ſeveral hours. At 6 *h.* 5 *m.* we found it 28. *m* diſtant from that ſtar: at 50. *min.* paſt 6. its diſtance was 25. *min.* when the two ſtars in *Andromedaes* ſhoulder with the Comet made a right angled Triangle, the right angle at the northward ſtar of the two mentioned. At 10 *h.* 5. *min.* The Comet paſſed by the ſaid ſtar, leaving it 12 *m* ſouthward.

Its viſible hourly motion at this time was about 6 *m.* direct, which if compared with its daily motion, we ſhall find it but little (if at all) retarded by reaſon of its Parallax, which ſhews (at leaſt at this time) its vaſt diſtance from us; for had it not far exceeded the diſtance of the moon, its true motion would have far exceeded its viſible.

Jan. 9. It was judged to be 19 *gr.* 25. *min.* ♈ and its Latitude 24 23.

Ian. 11. 6 *h.* The Comet was 17 *min.* diſtant from, and directly over a ſtar of the 6 *th* Magnitude in the ſnout of

the

the northern Fiſh, The night following, at 6 *h*. 35. *min* it was 46 *min.* northward from the northermoſt ſtar in the Fiſhes mouth.

Jan. 24. 6.*h.* 30 *min.* It was obſerved to be 44 *min.* diſtant from a ſtar of the fifth magnitude in the upper corner of the Triangle, its longitude being 16 *min.* leſs then the longitude of that ſtar.

After this it was ſeen (though but obſcurely) till the 10. of this Inſtant *February*, but is now ſo far exiled that it is beyond the view of a naked eye, but by the help of a good Teleſcope may be for ſome time yet diſcerned.

And thus is this prodigious Spectacle removed, leaving the world in a fearful expectation of what may follow; ſure it is that theſe things are not ſent for nothing, though man cannot ſay particularly for what: They are by moſt thought to be Fore-runners of evil coming upon the World, (though ſome think otherwiſe) as was long ſince obſerved by *Cicero*, *ab ultima antiquitatis memoria notatum eſt Cometas ſemper calamitatum prænuntios eſſe.*

But of theſe things we have lately heard in Publick by a Reverend Divine among us, in a Sermon *occaſioned by this Ominous* Appearance, *ſhewing* That prodigious Sights and Signs in heaven are many times Preſages of great Calamityes coming upon the World; *which at the deſire of many is forthwith to be made publick, to which we may refer our ſelves for the knowledge of what concerns us being under ſuch heavenly Warnings.*

Spring-Tides;

Spring-tides in the Year 1681.

March. From the eighth day to the eighteenth.

April. From the 6*th*. to the 14*th*.

May. From the 5 day to the 11.

June. From the 3 day to the 9.

July. From the 1. day to the 7*th*. and alſo the two laſt dayes in this moneth.

Auguſt. The four firſt dayes and the five laſt of this Moneth will produce high tides.

September. The two firſt dayes, and from the 17. to the end of the moneth, though not very high unleſs increaſed by the wind and weather.

October. From the 15*th*. day to the 30*th*.

November. From the 14*th*. to the 20*th*.

December. From the 12*th*. to the 18*th*.

January. From the 10*th*. to the fifteenth.

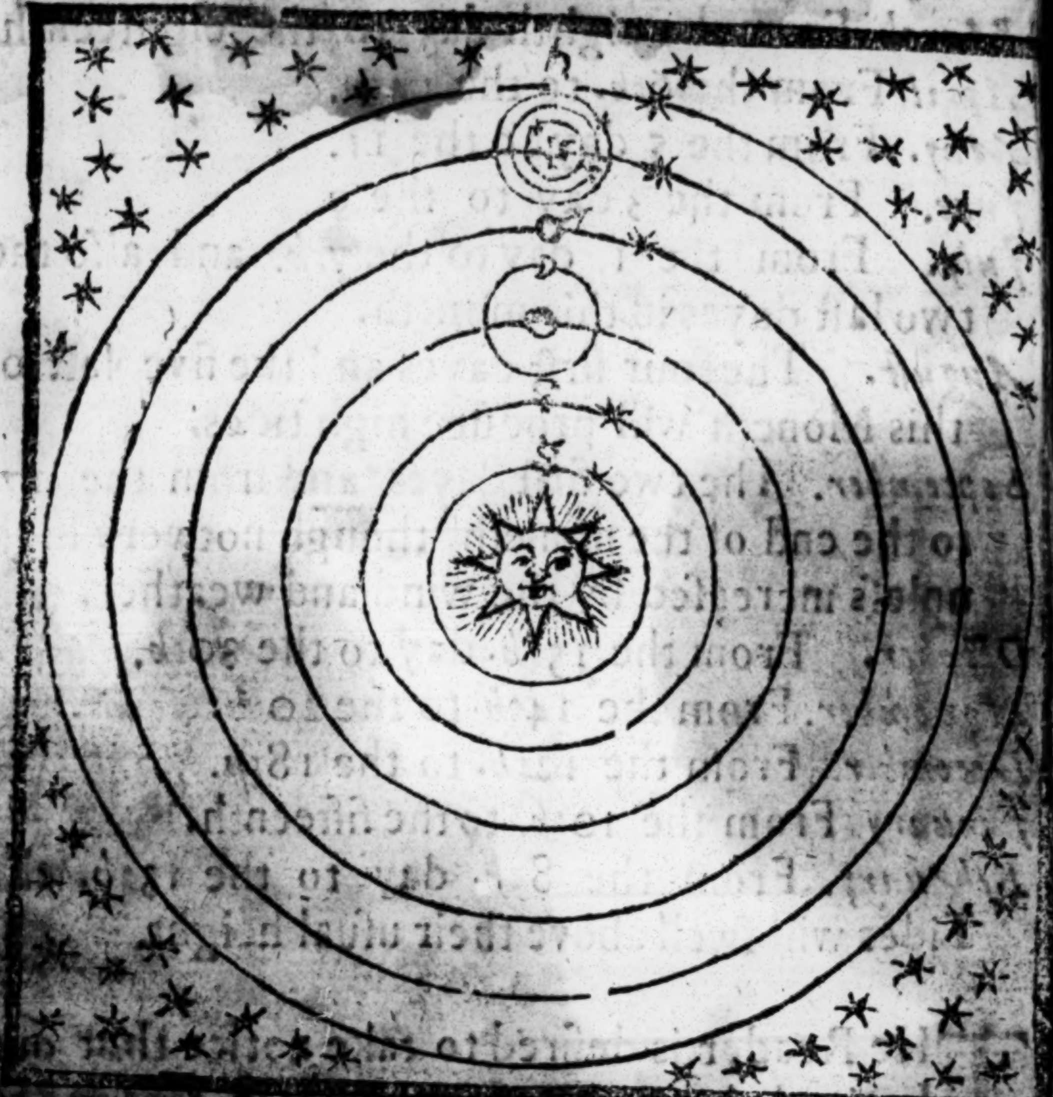
February. From the 8*th*. day to the 13*th*. the Tides will ſwell above their uſual height.

THe Reader is deſired to take notice that our Latitude here in *Boſton*, hitherto reputed to be 42. *gr*. 30. *min*. is by better Obſervations found not to exceed 42. *gr*. 24. *m*. of which you may expect the certainty by the next opportunity.

ERRATUM.

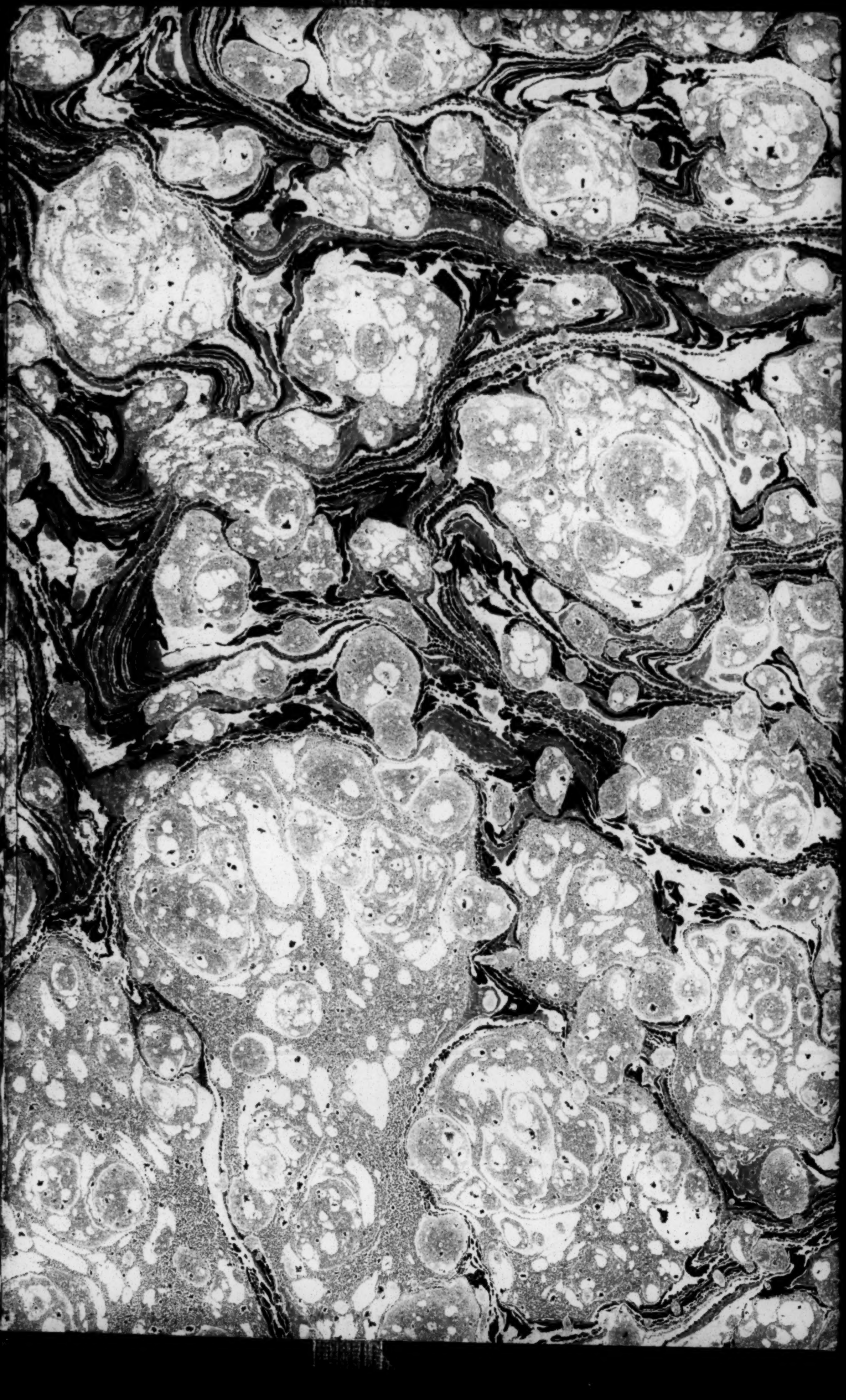
In the firſt Page of Obſervations of the Comet, and the firſt line, Read November the eighteenth.

The Copernican Syſtem.



Time tryeth Truth Convicting all that ſtrive
Faln Syſtems, dead Chymæraes to revive,
And he hath brought to light by good ſucceſs
The Law which nature never doth tranſgreſs.
Sol keeps his throne, and round about him ſhines
Upon ſix worlds which walk in ſingle lines,
And eight leſs Globes, again encompaſſing
One th' *Earth*, four *Jove*, Three *Saturn* with his Ring:
All ſing their Makers Praiſe, and ſhew his power
In due proportion moving every hour.
Thrice happy they that leaving wandring wayes
Doe duely walk to their Creators praiſe. T. Street.

FINIS.

Bound August 1937